

## APPENDIX E

PROTOTYPE SHEAR PANELS FOR COLD-FORMED STEEL SEISMIC DESIGN  
(English I-P units only)

E1. INTRODUCTION. This appendix provides tabular data for the selection of possible prototype shear panels that may be used in the seismic design of cold-formed steel structures. These panels were developed for an example problem presented in Appendix D using the design guidance presented in Chapter 3 and Appendix C. Each shear panel given in Table E-1 is defined in Figures D5, D8 and D9 as indicated in Table E-1.

E2. DEFINITION OF TERMS. The prototype shear panels given in Table E-1 shall be used based on the following definition of terms:

$V_x$  = the maximum story shear per shear panel, based on Equation C-27 in Appendix C.  
 $GL_{max}$  = the maximum gravity load per shear panel, based on Equation C-17 in Appendix C.  
 $GL_{min}$  = the minimum gravity load per shear panel, based on Equation C-18 in Appendix C.

E3. PROTOTYPE PANEL LOAD TABLE. Table E-1 provides the tabular data needed to select prototype shear panels.

Table E-1. Prototype Shear Panel Load Capacities.

	$V_x$ (kips)	$GL_{max}$ (kips)	$GL_{min}$ (kips)
Figure D5	9.5	6.0	-13.2
Figure D8	29.5	34.1	-6.5
Figure D9	33.5	44.1	-36.5